

(4) All coal crop lines and the strike and dip of the coal to be mined within the proposed permit area;

(5) Location and extent of known workings of active, inactive, or abandoned underground mines, including mine openings to the surface within the proposed permit and adjacent areas;

(6) Location and extent of sub-surface water, if encountered, within the proposed permit or adjacent areas, including, but not limited to areal and vertical distribution of aquifers, and portrayal of seasonal differences of head in different aquifers on cross-sections and contour maps;

(7) Location of surface water bodies such as streams, lakes, ponds, springs, constructed or natural drains, and irrigation ditches within the proposed permit and adjacent areas;

(8) Location and extent of existing or previously surface-mined areas within the proposed permit area;

(9) Location and dimensions of existing areas of spoil, waste, coal development waste, and non-coal waste disposal, dams, embankments, other impoundments, and water treatment and air pollution control facilities within the proposed permit area;

(10) Location, and depth if available, of gas and oil wells within the proposed permit area and water wells in the permit area and adjacent areas;

(b) Cross-sections, maps and plans included in a permit application as required by this section shall be prepared by, or under the direction of, and certified by a qualified, registered, professional engineer, a professional geologist, or in any State which authorizes land surveyors to prepare and certify such cross sections, maps and plans, a qualified, registered, professional, land surveyor, with assistance from experts in related fields such as landscape architecture, and shall be updated as required by the regulatory authority.

[44 FR 15363, Mar. 13, 1979, as amended at 45 FR 51550, Aug. 4, 1980; 50 FR 16199, Apr. 24, 1985; 59 FR 27937, May 27, 1994]

EDITORIAL NOTE: For a document suspending § 783.25(a)(3), (a)(8) and (a)(9) (previously § 783.25(c), (h), and (i)), see 45 FR 51548, Aug. 4, 1980.

PART 784—UNDERGROUND MINING PERMIT APPLICATIONS—MINIMUM REQUIREMENTS FOR RECLAMATION AND OPERATION PLAN

Sec.

- 784.1 Scope.
- 784.2 Objectives.
- 784.4 Responsibilities.
- 784.10 Information collection.
- 784.11 Operation plan: General requirements.
- 784.12 Operation plan: Existing structures.
- 784.13 Reclamation plan: General requirements.
- 784.14 Hydrologic information.
- 784.15 Reclamation plan: Land use information.
- 784.16 Reclamation plan: Siltation structures, impoundments, and refuse piles.
- 784.17 Protection of publicly owned parks and historic places.
- 784.18 Relocation or use of public roads.
- 784.19 Disposal of excess spoil.
- 784.20 Subsidence control plan.
- 784.21 Fish and wildlife information.
- 784.22 Geologic information.
- 784.23 Operation plan: Maps and plans.
- 784.24 Road systems.
- 784.25 Return of coal processing waste to abandoned underground workings.
- 784.26 Air pollution control plan.
- 784.28 Surface activities in or adjacent to perennial or intermittent streams.
- 784.29 Diversions.
- 784.30 Support facilities.
- 784.200 Interpretive rules related to General Performance Standards.

AUTHORITY: 30 U.S.C. 1201 *et seq.* and 16 U.S.C. 470 *et seq.*

SOURCE: 44 FR 15366, Mar. 13, 1979, unless otherwise noted.

§ 784.1 Scope.

This part provides the minimum requirements for the Secretary's approval of regulatory program provisions for the mining operations and reclamation plans portions of applications for permits for underground mining activities, except to the extent that different requirements for those plans are established under 30 CFR part 785.

§ 784.2 Objectives.

The objectives of this part are to ensure that the regulatory authority is provided with comprehensive and reliable information on proposed underground mining activities, and to ensure that those activities are allowed to be